

MICHAEL POTTS

Edmonton, Alberta | Website: michael-j-potts.github.io

GitHub: <https://github.com/michael-j-potts/Portfolio>

587 986 8303 | Michael.jeremy.potts@gmail.com

To whom it may concern,

I am excited to apply for a Data Scientist position at your organization. With a Master of Computer Science specializing in data science, hands-on experience in analytics, and a deep passion for solving real-world problems with data, I bring a strong mix of statistical expertise, machine learning proficiency, and domain adaptability.

At the Alberta Native Friendship Centres Association (ANFCA), I served as the Education Department's data analyst, supporting 21 Friendship Centres across Alberta. I built custom Python tools to extract structured insights from hundreds of Word documents, turning unstructured data into meaningful visualizations. These dashboards and statistical reports were used to inform funding decisions and program development for K–12 education.

At Canuck Place Children's Hospice, I partnered with the medical team to lead statistical analysis projects and apply machine learning methods to understand complex symptom patterns in pediatric patients. I also delivered presentations on the potential of AI in clinical contexts and developed dashboards to communicate key findings to multidisciplinary teams.

During my Master's program, I completed a deep learning internship with Sunstella, where I applied graph neural networks (GNNs) to model patient health data using ICD-10 coding. My coursework further strengthened my foundation in applied machine learning, Bayesian modeling, and deep learning. I also have experience with experimental design, data visualization, and causal inference.

In addition to my academic and professional experience, I maintain a strong interest in practical applications of data science. My GitHub portfolio features several independent projects, including a global life expectancy dashboard based on healthcare spending and a series of IoT prototypes that collect and analyze sensor data—from diabetic foot monitors to environmental trackers.

I began my career as a Registered Cardiac Nurse and data abstractor, which taught me the value of precise data collection and critical decision-making—skills I now apply in technical domains. I'm excited to bring this diverse background, paired with strong analytical and programming skills, to a data science team that values impact, creativity, and technical depth.

Thank you for considering my application. I would welcome the opportunity to contribute to your team and look forward to discussing how my background aligns with your goals.

Sincerely,

Michael Potts

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Passionate Data Scientist, with 6 years of experience turning complex data into actionable insights. Proficient in Python, R, C++, and SQL, with hands-on experience in machine learning, data analysis, and visualization. I'm excited to bring my skills in Data Science and Machine Learning to a dynamic team where I can help drive meaningful results through data-driven strategies.

EXPERIENCE

DATA ANALYST

ANFCA

MARCH 2024 - PRESENT

Worked with the education team on a project focused on providing academic supports for Indigenous children and youth. Extracted and transferred data from hundreds of Microsoft Word documents into Excel spreadsheets to facilitate comprehensive statistical analysis using Python. Leveraged data visualization tools such as charts, graphs, and infographics to effectively illustrate findings and make them accessible to diverse audiences.

STATISTICIAN AND HEALTH RESEARCHER

Canuck Place Children's Hospice

MARCH 2023 – JANUARY 2024 (MAT LEAVE)

Collaborated with the medical director on palliative care research. Executed machine learning models, geo-analytical mappings, and statistical analysis. Forecasted palliative care needs in BC using predictive analytics.

RESEARCH ASSISTANT

TLEC Innovations

JANUARY 2020 – JANUARY 2022

Researched and analyzed chemical catalyst structures for exhaust recapture prototype. Contributed to R&D and innovation in emission control technologies. Developed and edited corporate proposals and technical presentations.

EDUCATION

MASTERS OF COMPUTER SCIENCE

University of Illinois – Urbana Champaign

August 2021 - December 2022

Relevant Coursework:

- Machine Learning, Deep Learning for Healthcare, Bayesian Modeling
 - GPA 4.0
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SKILLS

- Languages - Python, C++, R, SQL
 - Data visualization – Tableau, Power BI, Seaborn
 - Machine Learning – Tensorflow, PyTorch, Keras
 - OpenCV, Sci-Kit Learn, NLTK, CNN, RNN
 - XGBoost, Spark MLlib, SNOMED, ICD-9/10
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CERTIFICATES

- Microsoft Azure Data Science Associate (DP-100)
 - Microsoft Learning with TensorFlow on Google Cloud
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